



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/753,343	12/29/2000	Jin Li	2069.009900	2045
23720	7590	06/04/2004	EXAMINER	
WILLIAMS, MORGAN & AMERSON, P.C. 10333 RICHMOND, SUITE 1100 HOUSTON, TX 77042			HAROLD, JEFFEREY F	
			ART UNIT	PAPER NUMBER
			2644	4

DATE MAILED: 06/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/753,343

Applicant(s)

LI, JIN

Examiner

Jefferey F Harold

Art Unit

2644

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 March 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4,5,9-15,19-22 and 24-26 is/are rejected.
- 7) ☒ Claim(s) 3,6-8,16-18,23 and 27-30 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. ***Claims 1, 2, 4, 5, 9-15, 19-22, and 24-26*** are rejected under 35 U.S.C. 102(e) as being anticipated by Zhou (United States Patent 6,219,417).

Regarding **claim 1**, Zhou discloses ring trip detection in a communication system. In addition Zhou discloses a method comprising: transmitting a signal having at least a portion of the transmitted signal from the subscriber line; receiving at least a portion of the transmitted signal from the subscriber line; determining at least a portion of a period of the AC component based on the received signal; and performing a function of a line card in response to determining at least the portion of the period of the AC component; as disclosed at column 11, line 13 through column 12, line 13 and exhibited in figures 7 and 9.

Regarding **claim 2**, Zhou discloses everything claimed as applied above (see claim 1), in addition, Zhou discloses wherein the signal is a ringing signal and wherein performing the function includes performing ring-trip detection, as disclosed at column 11, line 13 through column 12, line 13 and exhibited in figures 7 and 9.

Regarding **claim 4**, Zhou discloses everything claimed as applied above (see claim 1), in addition Zhou discloses wherein determining at least the portion of the period includes determining at least one zero crossing of the AC component, as disclosed at column 11, line 13 through column 12, line 13 and exhibited in figures 7 and 9.

Regarding **claim 5**, Zhou discloses a method comprising transmitting a ringing signal, which reads on a signal having at least one of an AC component and a DC component, to a subscriber line; receiving at least a portion of the transmitted signal from the subscriber line; filtering the DC component from the received signal; determining a value proportional to a power of the AC component of the received signal over at least a portion of a period of the AC component; and performing a function of a line card in response to determining the value proportional to the power of the AC component, as disclosed at column 11, line 13 through column 12, line 13 and exhibited in figures 7 and 9.

Regarding **claim 9**, Zhou discloses everything claimed as applied above (see claim 5), in addition, Zhou discloses wherein the signal is a ringing signal and wherein performing the function includes performing ring trip detection, as disclosed at column 11, line 13 through column 12, line 13 and exhibited in figures 7 and 9.

Regarding **claim 10**, Zhou discloses everything claimed as applied above (see claim 5), in addition, Zhou discloses wherein the signal is a fault detection signal and wherein performing the function includes performing AC-fault detection, as disclosed at column 11, line 13 through column 12, line 13 and exhibited in figures 7 and 9.

Regarding **claims 11-15, 19-22, and 24-26**, are interpreted and thus rejected for the reasons set forth above in the rejection of claims 1, 2, 4, 5, 9 and 10.

Allowable Subject Matter

2. **Claims 3, 6-8, 16-18, 23 and 27-30** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

3. Applicant's arguments with respect to claims 1-26 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferey F Harold whose telephone number is 703-306-5836. The examiner can normally be reached on Monday - Friday 9 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W Isen can be reached on 703-305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JFH
June 1, 2004

Jefferey F Harold
Examiner
Art Unit 2644



XU MEI
PRIMARY EXAMINER